### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5301060

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT		

#### **CONVEYING PARTY DATA**

Name	Execution Date
KATSUHIRO TANGE	12/21/2018
HARUKI KATO	12/21/2018
KYOSUKE NONOYAMA	12/21/2018
YUSUKE HOSHIKAWA	12/21/2018

#### **RECEIVING PARTY DATA**

Name:	INOAC CORPORATION	
Street Address:	13-4, MEIEKI-MINAMI 2-CHOME, NAKAMURA-KU, AICHI-KEN	
City:	NAGOYA-SHI	
State/Country:	ate/Country: JAPAN	
Postal Code:	450-0003	
Name:	TOYOTA JIDOSHA KABUSHIKI KAISHA	
Street Address:	1, TOYOTA-CHO, AICHI-KEN	
City:	TOYOTA-SHI	
State/Country:	ate/Country: JAPAN	
Postal Code:	stal Code: 471-8571	
Name:	KABUSHIKI KAISHA TOYOTA JIDOSHOKKI	
Street Address:	t Address: 2-1, TOYODA-CHO, AICHI-KEN	
City:	r: KARIYA-SHI	
State/Country:	Country: JAPAN	
Postal Code:	448-8671	

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16233636

#### **CORRESPONDENCE DATA**

505254289

**Fax Number:** (202)293-7860

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

**Phone:** 202-293-7060

**Email:** tyarborough@sughrue.com, sughrue@sughrue.com

PATENT REEL: 047861 FRAME: 0118 Correspondent Name: SUGHRUE MION, PLLC

Address Line 1: 2100 PENNSYLVANIA AVENUE, N.W.

Address Line 2: SUITE 800

Address Line 4: WASHINGTON, D.C. 20037-3213

ATTORNEY DOCKET NUMBER:	Q239128		
NAME OF SUBMITTER:	TODD YARBOROUGH, TEAMS DEPT		
SIGNATURE:	/Todd Yarborough/		
DATE SIGNED:	12/27/2018		

**Total Attachments: 3** 

source=Q239128Assignmentasfiled#page1.tif source=Q239128Assignmentasfiled#page2.tif source=Q239128Assignmentasfiled#page3.tif

> PATENT REEL: 047861 FRAME: 0119

### ASSIGNMENT

ENGINE I	Katsubiro TANGE Haruki KATO Kyosuke NONOYAMA Yusuke HOSHIKAWA pnor(s), have invented cei	of Kariya-shi, Aichi-ken, Japan artain improvements in	
and executed an applic	December 21,	of the United States of America therefor on 2018; and	
Whereas, INOAC CORPORAT 13-4, Meicki-Minam	TON of	, Nagoya-shi, Aichi-ken, 450-0003 Japan	
	KABUSHIKI KAISHA ot ta-shi, Aichi-ken, 471-8571		
	A TOYOTA JIDOSHOK riya-shi, Aichi-ken, 448-86		
(assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States patents to be obtained therefor;  Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,  I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. § 119, and I/we request the Director — U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.  I/We hereby authorize and request my/our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3213 to insert here in parentheses (Application number			
Date: December 2	1, 2018 s/	丹子孫克 Katsuhiro TANGE	
Date: December 2	1, 2018 s/	ルロ R た た だす。 Haruki KATO	
Date:	s/	Kyosuke NONOYAMA	
Date:	s/	Yusuke HOSHIKAWA	

# ASSIGNMENT

Where	eas, I/we	Katsubiro TANGE	of	Inazawa-shi, Aichi-ken, Japan
		Haruki KATO	of	Nishio-shi, Aichi-ken, Japan
		Kyosuke NONOYAMA	of	Toyota-shi, Aichi-ken, Japan
		Yusuke HOSHIKAWA	of	Kariya-shi, Aichi-ken, Japan
herein	rafter called assign	nor(s), have invented cer	tain	improvements in
	ENGINE IN	TAKE AIR DUCT		
and ex	xecuted an applica	ation for Letters Patent o	f the	united States of America therefor on
	AC CORPORAT		Nag	2018 ; and goya-shi, Aichi-ken, 450-0003 Japan
		KABUSHIKI KAISHA of 8-shi, Aichi-ken, 471-8571		pan
		A TOYOTA JIDOSHOKI iya-shi, Aichi-ken, 448-86		
its suctherein I/we re inventiwithou States Pennsynumbe	States patents to Now therefore, in It We, the above cessors and assign for the United Sequest the Director on set forth in the further considers application when It We hereby any set It want a director when the sequest th	to be obtained therefor; for valuable consideration named assignor(s), here gns, the entire right, title attes of America, including application to the assignation all papers deemed called upon to do so by authorize and request N.W., Washington, D.C.	n, rebys and ng tiend gned necent the amount of the amount	nd interest in the application and invention, and to any exceipt whereof is hereby acknowledged, sell, assign and transfer to the above named assignee, interest in the application and the invention disclosed the right to claim priority under 35 U.S.C. § 119, and irk Office to issue any Letters Patent granted upon the e, its successors and assigns; and I/we will execute essary by the assignee in connection with the United assignee.  Four attorneys SUGHRUE MION, PLLC of 2100 037-3213 to insert here in parentheses (Application) the filing date and application number
Date:		s/	Kats	subiro TANGE
Date:		\$/	Har	ruki KATO
Date:	December 21,	2018 8/	∕⊘.a\ Kye	suke NONOYAMA
Date:		s/	Yusi	uke HOSHIKAWA

# ASSIGNMENT

wnereas, l/we	Katsuhiro TANGE	Of	Inazawa-shi, Aichi-ken, Japan
	Haruki KATO	of	Nishio-shi, Aichi-ken, Japan
	Kyosuke NONOYAMA	of	Toyota-shi, Aichi-ken, Japan
	Yusuke HOSHIKAWA	of	Kariya-shi, Aichi-ken, Japan
hereinafter called as	ssignor(s), have invented ce	rtain	improvements in
ENGINE	INTAKE AIR DUCT		
and executed an ap	plication for Letters Patent o	if the	e United States of America therefor on
	December 21	×	2018 ; and
Whereas, INOAC CORPOR 13-4, Meieki-Min		Naş	goya-shi, Aichi-ken, 450-0003 Japan
	HA KABUSHIKI KAISHA of Dyota-shi, Aichi-ken, 471-8571		)an
	SHA TOYOTA JIDOSHOKI Kariya-shi, Aichi-ken, 448-86		
Now therefore I/We, the abits successors and a therein for the Unite I/we request the Direction set forth in without further consistates application with the I/We hereb Pennsylvania Avenu	is to be obtained therefor; ire, for valuable consideratio ove named assignor(s), here issigns, the entire right, title id States of America, includi actor – U.S. Patent and Tradi in the application to the assi deration all papers deemed hen called upon to do so by y authorize and request ue, N.W., Washington, D.Cfiled	n, reaby sand ing the ingrediate	aceipt whereof is hereby acknowledged, sell, assign and transfer to the above named assignee, interest in the application and the invention disclosed the right to claim priority under 35 U.S.C. § 119, and ark Office to issue any Letters Patent granted upon the e, its successors and assigns; and I/we will execute essary by the assignee in connection with the United assignee.  //our attorneys SUGHRUE MION, PLLC of 2100 037-3213 to insert here in parentheses (Application) the filing date and application number
Date:	s/	Kat	Isuhiro TANGE
Date:	6/	Har	raki KATO
Date:	s/	Kyo	osuke NONOYAMA
Date: December 2	1, 2018 8/		iuke HOSHIKAWA nuke HOSHIKAWA

PATENT
RECORDED: 12/27/2018

PATENT
RECORDED: 12/27/2018